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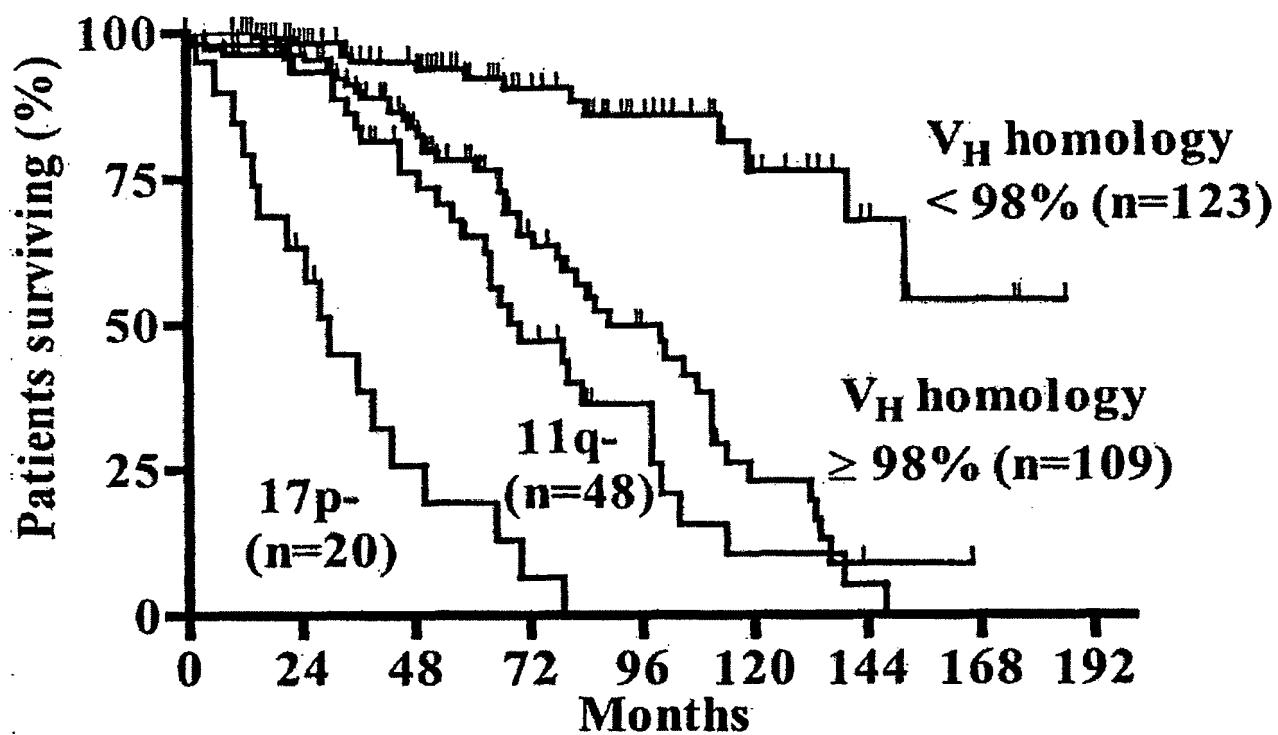


Fig. 1

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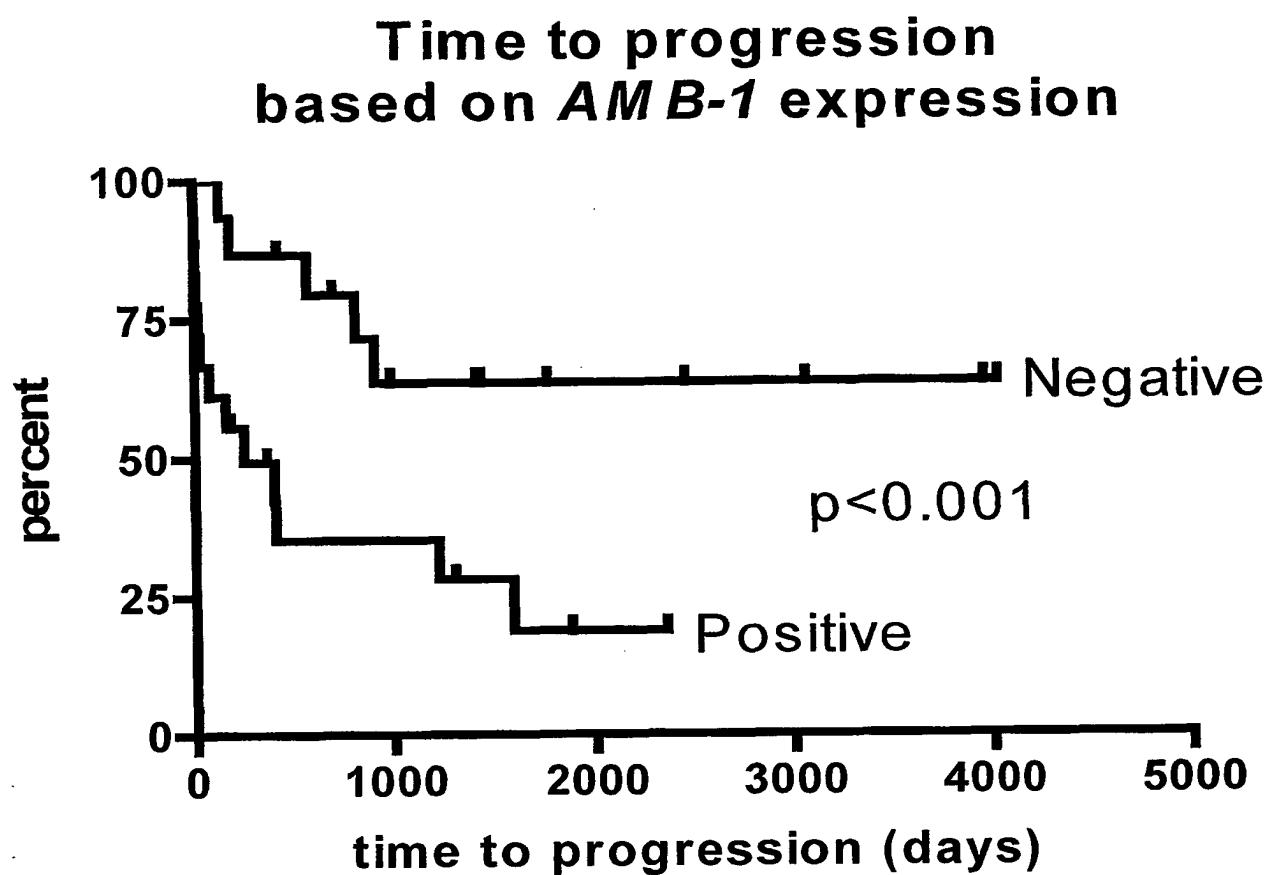


Fig. 2a

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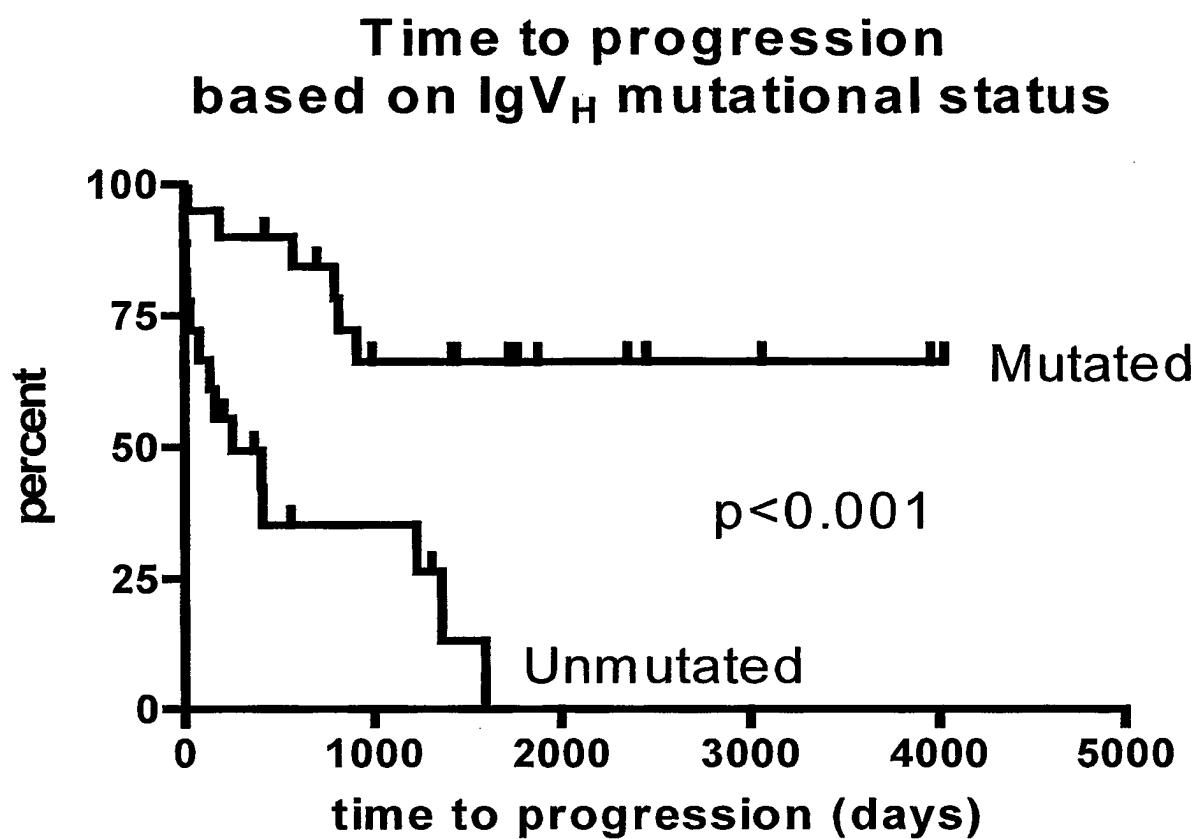


Fig. 2b

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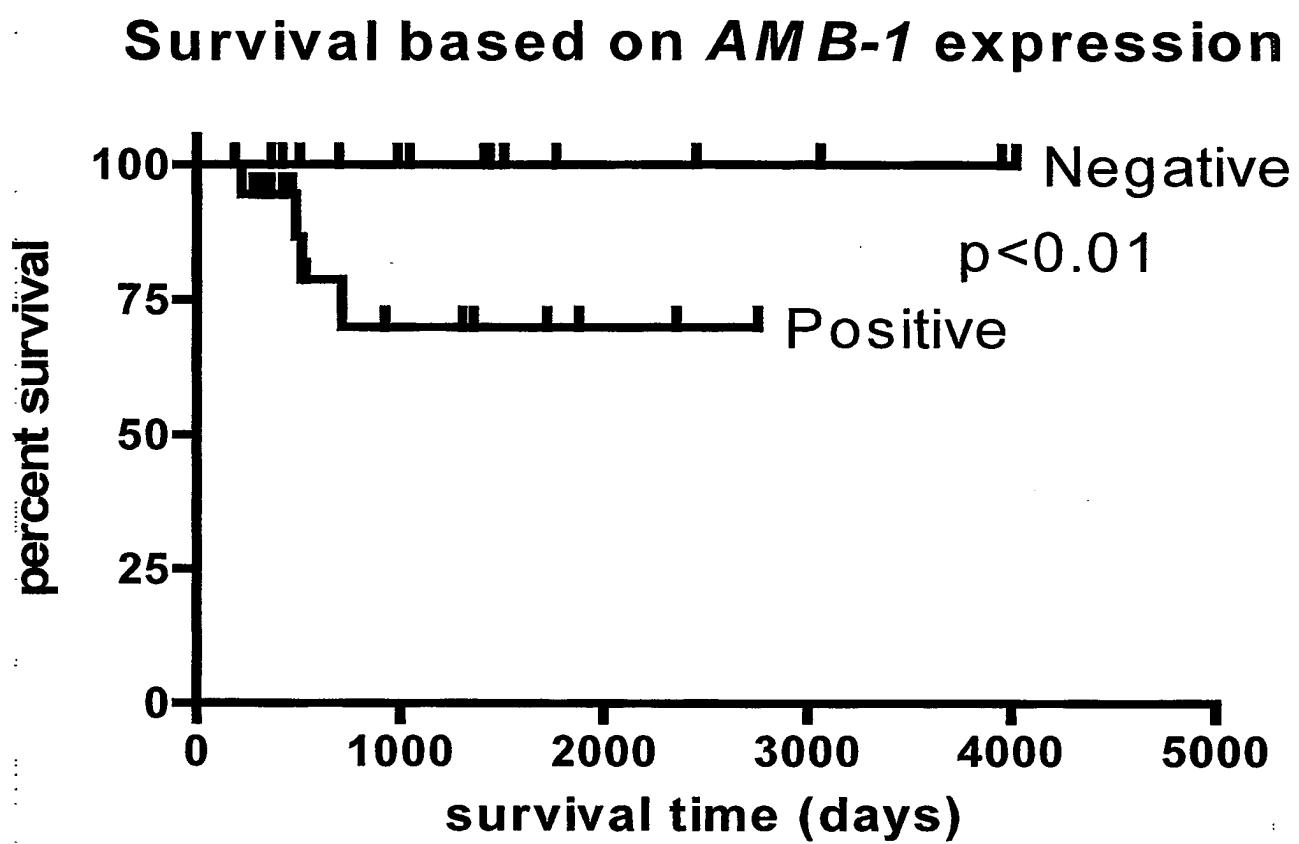


Fig. 2c

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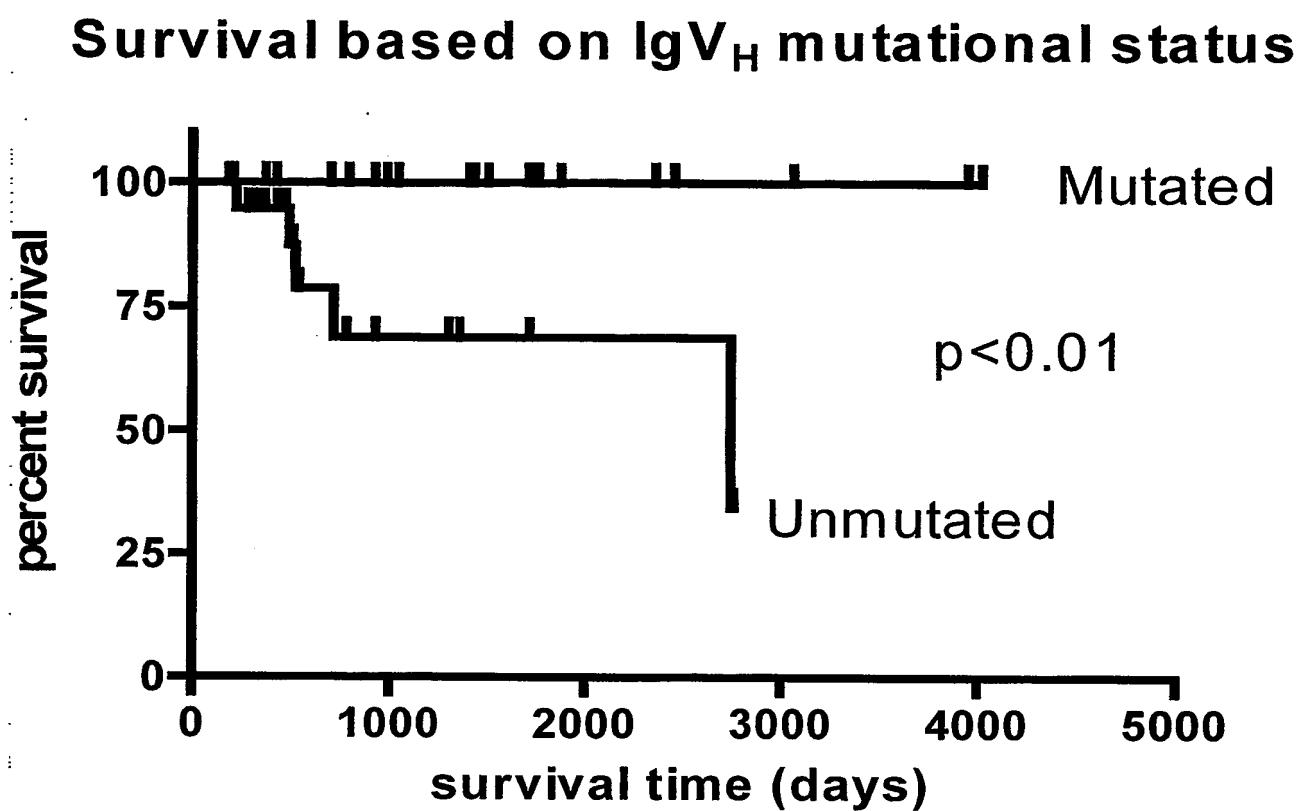


Fig. 2d

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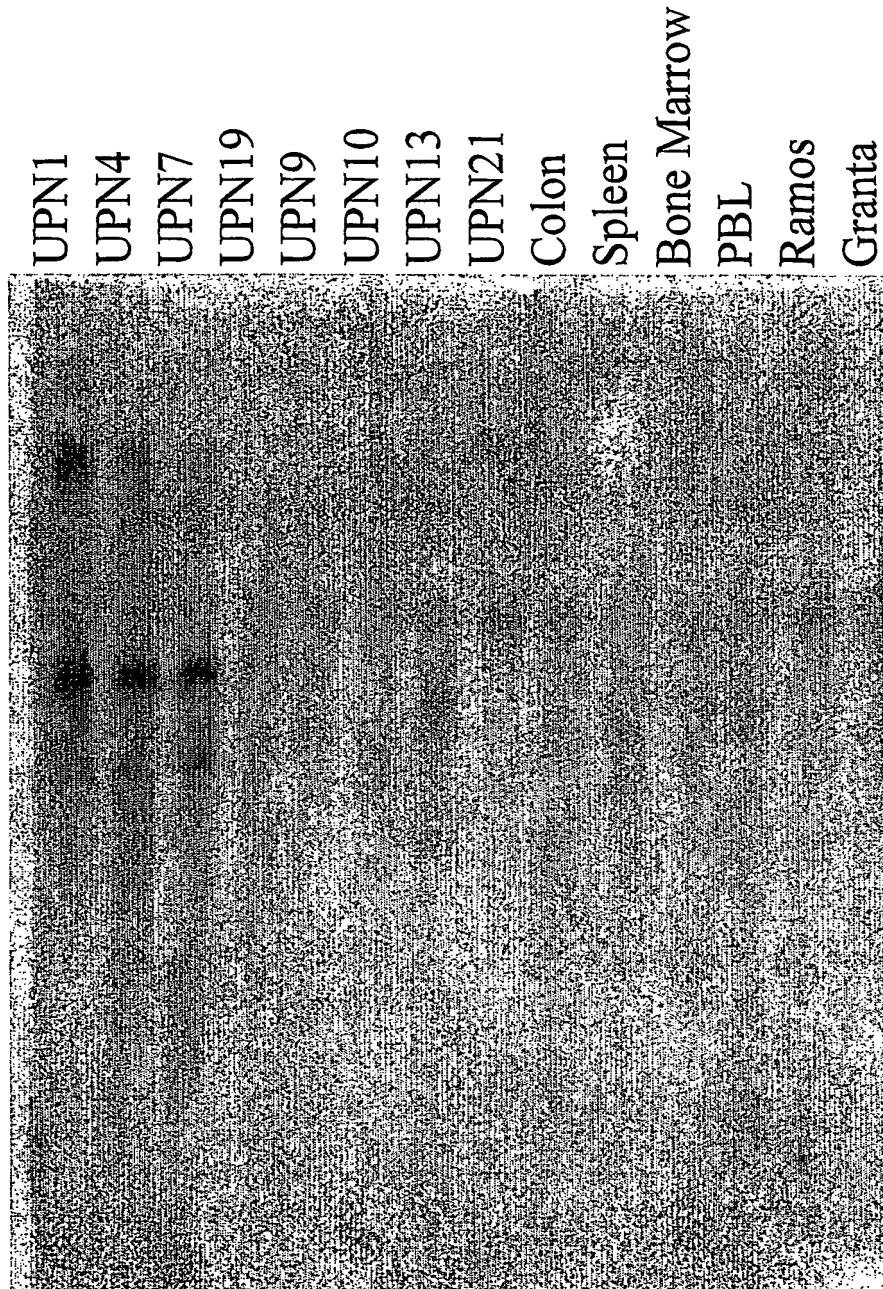


Fig. 3

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AMB1_pe_PSS	CCCCCCCC	HHHHHHHH	CCCCCCCC	CCCCCCCC	CCCCCCCC	EEEEEE
AMB1_pe_Seq	MFNKCSFHSS	TYRPAADNSA	SSLCAATICFL	NLVIECDLET	NSEINKLIIY	+
-----	-----	-----	--+L--	-E-	+L-+	-
d1iara_Seq	-----	-----	--+L--	N+	-----	-
d1iara_SS	-----	-----	-----	NSL	TEQ	-----
CORE	0000	0000	0000	HHH	HCC	CCCCCCEE
	0005	0005	0005	000	000	0000100041
AMB1_pe_PSS	EECCCC	HHHHHHHH	HHHHHHHH	HHHHHHHH	HHHHHHHH	CCCCCE
AMB1_pe_Seq	LFSQNNRIR	FSKLLKILF	SIFSYPE	ILMC	EQYV	SKNFKF
-----	-----	--+ - +	- +	--C	+Q-+	SK- -
d1iara_Seq	-----	-----	-----	-----	-----	REKYSKCSS
d1iara_SS	DIFAAASKNT	EKEFCRAAT	VLRQFYSHHE	KDTRCIGATA	QQFHRHKQLI	HHHHHHHH
CORE	CCCCCCCC	CCCCCCCC	HHHHHHHH	CCHHHCCCH	HHHHHHHH	000000000030
AMB1_pe_PSS	HHHC	HHHHHHHH	CCCCCCCC	CCCCCCCC	HHHH	-----
AMB1_pe_Seq	TFIK	PGITHYGQ	VSKKHTIYS	TEI	-----	-----
-----	-F+K	-G+	- + -	FI	-----	-----
d1iara_Seq	-----	-----	VKEANQSTLE	NFILERLKTIM	-----	-----
d1iara_SS	RFLKRLDRNL	WGLAGLNSCP	CCCCCEEHH	HHHHHHHH	HHHHHHHH	HHHHHHHH
CORE	0160080008	0011000000	2000002060	0560080013	0000000000	0000000000
AMB1_pe_PSS	EEEEEE	QLLRVCW	-----	-----	-----	-----
AMB1_pe_Seq	-----	-----	-----	-----	-----	-----
d1iara_Seq	-----	-----	-----	-----	-----	-----
d1iara_SS	-----	-----	-----	-----	-----	-----
CORE	-----	-----	-----	-----	-----	-----

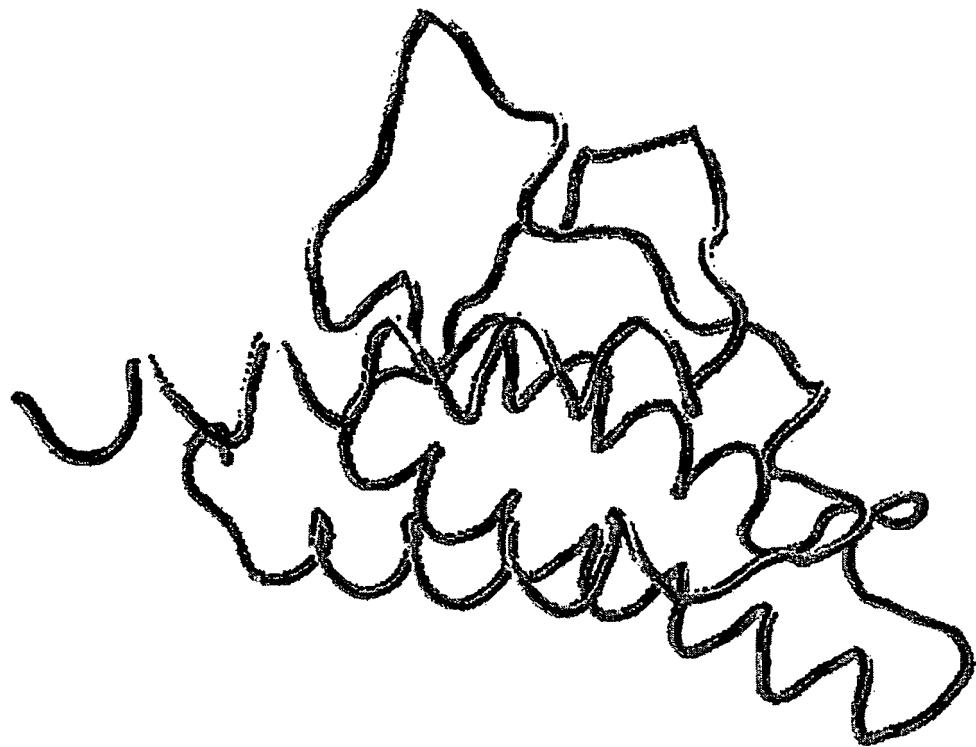
Fig.4

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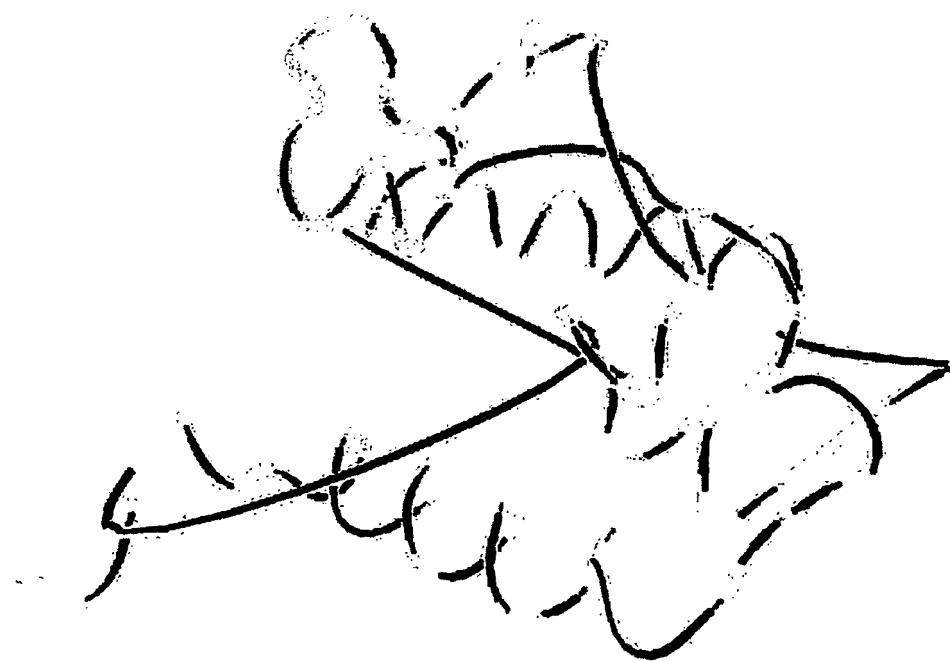
Query	Template	Length	SSW	SSW	Blastx	Blastx	Class	Fold	Superfamily	Family	Protein	
											Family	
d1p3212	75		2.88	1	n/a	n/a	Alpha and beta proteins (ab)	Thioredoxin fold	Thioredoxin-like	Glutathione S-transferase, N-terminal domain	Glutathione S-transferase, N-terminal domain	
dliara	17961.d	129	3.05	1	n/a	n/a	All alpha proteins	4-helical cytotoxins	4-helical cytotoxins	Interleukin-4 (IL-4)	Short-chain cytokines	
cldena	17961.d	89	5.34	1	n/a	n/a	neutin	PDB header: 1scop	PDB header: 1scop	Chain A: PDB molecule: 1scop	PDB header: 1scop	PDBTitle: solution structure of 1scop interleukin-2 1beta generation.
d1an3a	20		5.57	1	n/a	n/a	$\alpha$ II alpha proteins	Helix-loop-helix DNA-binding domain	Helix-loop-helix DNA-binding domain	Helix-loop-helix DNA-binding domain	SRREBP-1a	

Fig.5

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Human IL4



AMB1

Fig.6

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AMB1 IL4 IL3 IL13 G4-CSF  
 AMB1 -----MENKCSFHISSTYRPADNSASSCALICE-----LNUVIECDE-TNS-EINGLITY-LFSONNRIRESKLLIKLIFTI-SIESTPE---INC-----EQVTFIK-----  
 IL4 -----HKCUDITLQELIKT-----ILASL-----TE-OKT-ICTELJUTDIFASKONTIEKETFRATVLRGFSYSHEDKDCR-----EGHNGCPSKKEANQSTLE-----NEFLRATIMPERKYSKSS-----  
 IL3 -----IANGSIMIDE-----ILRH-----IKAPEPL-ATAPTRPHIHKOG-----ILKNULECPFL-ATAPTRPHIHKOG-----RKCUTTYKTLNDAQOQ-----  
 IL13 -----NULN-SEMDILMERNRNTILAFRAVKELENASATES-----SGCSATEK-----TOMLISGCPH-KVSAQFSSLYHDTKIVAF-----VKAJJAHKLFREGERN-----  
 CSF -----RSEFESTQFWERVNDICARRLNL-----FOLQE-PTCLOTRLEYKQ-----LKGPLTMAHSHYKORCPPEPSCATOQITESTF-----KENIKOFLVTPDCEP-----GLGSLK-----  
 G4-CSF

Fig. 7

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	1	2	3	4	5	6	7	8	9	10	11	12
A	whole brain	cerebellum left	substantia nigra	heart	esophagus	colon, transverse	kidney	lung	liver	leukemia, HL-60	fetal brain	yeast total RNA
B	cerebral cortex	cerebellum right	accumbens nucleus	aorta	stomach	colon, descending	skeletal muscle	placenta	pancreas	HeLa S3	fetal heart	yeast tRNA
C	frontal lobe	corpus callosum	thalamus	atrium, left	duodenum	rectum	spleen	bladder	adrenal gland	leukemia K-562	fetal kidney	<i>E.coli</i> rRNA
D	parietal lobe	amygdala	pituitary gland	atrium, right	jejunum		thymus	uterus	thyroid gland	leukemia, MOLT-4	fetal liver	<i>E.coli</i> DNA
E	occipital lobe	caudate nucleus	spinal cord	ventricle left	ileum		peripheral blood leukocyte	prostate	salivary gland	Burkitt's lymphoma, Raji	fetal spleen	Poly r(A)
F	temporal lobe	hippo-campus		ventricle right	ilocecum		lymph node	testis	mammary gland	Burkitt's lymphoma, Daudi	fetal thymus	human Cot-1 DNA
G	p.g.* of cerebral cortex	medulla oblongata		inter-ventricular septum	appendix		bone marrow	ovary		colorectal adenocarcinoma SW480	fetal lung	human DNA 100 ng
H	pons	putamen		apex of the heart	colon, ascending			trachea		lung carcinoma A549	human DNA 500 ng	

Fig. 8

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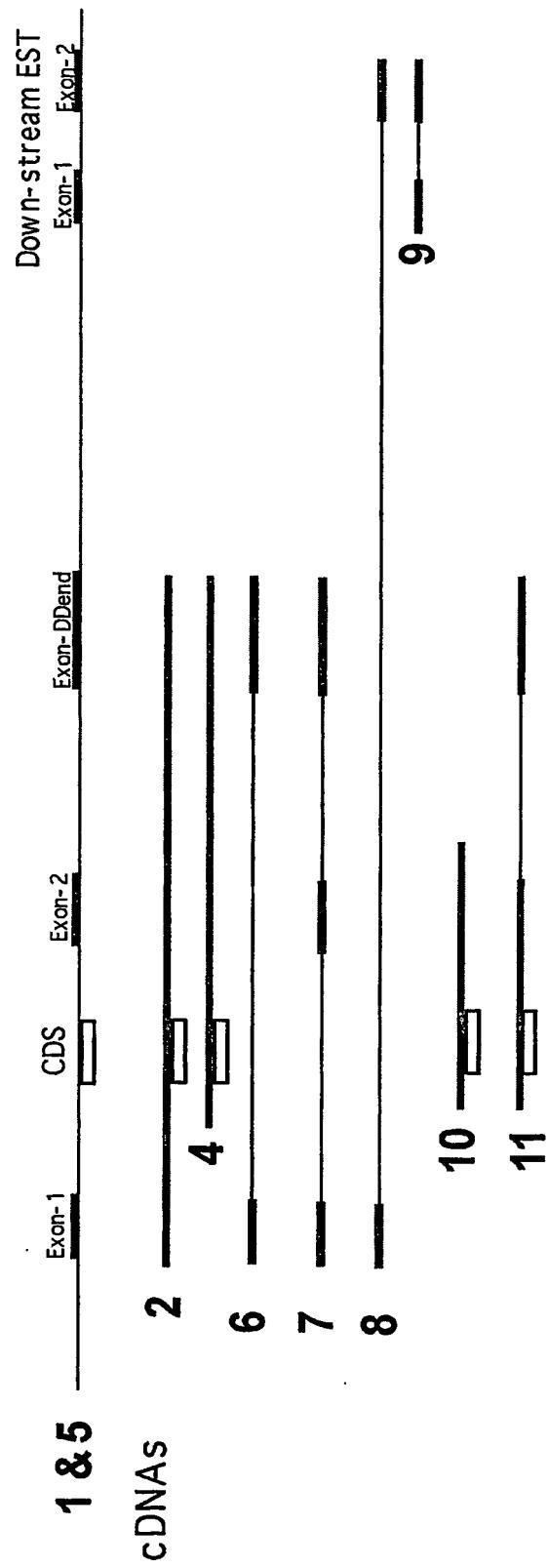


Fig. 9

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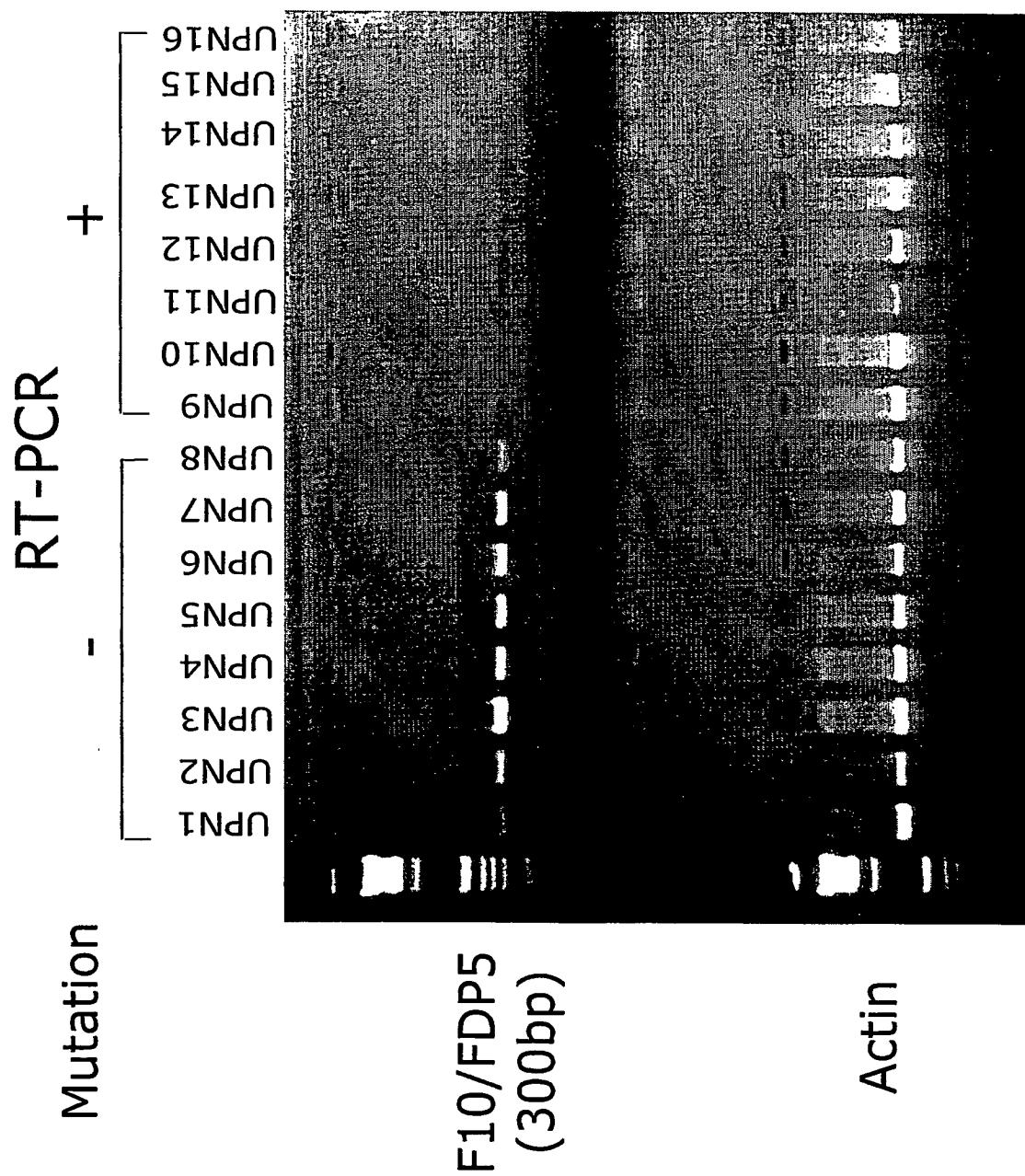


Fig. 10